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A	pplication No.	Applicant(s)	
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	onas N. Strickland	1754	
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— The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS (OF herewith (or previously mailed), a Notice of Allowance (PTOL-85) or o NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGH of the Office or upon petition by the applicant. See 37 CFR 1,313 and	R REMAINS) CLOSED in other appropriate commu TS. This application is si	this application. If not included nication will be mailed in due co	l ourse. THIS
1. X This communication is responsive to the amendment filed on the			
 ∑ The allowed claim(s) is/are claims 1-21. 	// 14/04 .		
3. The drawings filed on are accepted by the Examiner.	•		
 Acknowledgment is made of a claim for foreign priority under Aff b) ☐ Some* c) ☐ None of the: 	35 U.S.C. § 119(a)-(d) o	r (f) .	
1. Certified copies of the priority documents have been	en received.		
Certified copies of the priority documents have been	en received in Application	No	
Copies of the certified copies of the priority docum	ents have been received	in this national stage application	n from the
International Bureau (PCT Rule 17.2(a)).	· ·		
* Certified copies not received:			
 Acknowledgment is made of a claim for domestic priority under reference was included in the first sentence of the specification 	or in an Application Data	Sheet, 37 CFR 1.78.	sp e cific
(a) The translation of the foreign language provisional applic			
 Acknowledgment is made of a claim for domestic priority under in the first sentence of the specification or in an Application Oat 	a Sheet. 37 CFR 1.78.	·	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this selow. Failure to timely comply will result in ABANDONMENT of this :	communication to file a rapplication. THIS THRE	reply complying with the require E-MONTH PERIOD IS NOT EX	menis note CTENDABL
7. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives re	. Note the attached EXAM ason(s) why the oath or o	diNER'S AMENDMENT or NOT declaration is deficient.	TCE OF
3. CORRECTED DRAWINGS (as "replacement sheets") must be			-
(a) including changes required by the Notice of Draftsperson's	Patent Drawing Review	(PTO-948) attached	
1) Thereto or 2) to Paper No			
(b) including changes required by the proposed drawing correct			
(c) I including changes required by the attached Examiner's Am	endment / Comment of i	n the Onice action of Paper No.	
identifying indicis such as the application number (see 37 CFR 1.84(c) each sheet. Replacement sheet(s) should be labeled as such in the manual parts of the manual pa)) should be written on the argin according to 37 CFR	drawings in the front (not the ba 1.121(d).	ck) of
DEPOSIT OF and/or INFORMATION about the deposit of itached Examiner's comment regarding REQUIREMENT FOR THE D	FBIOLOGICAL MATER DEPOSIT OF BIOLOGICA	RIAL must be submitted. Not AL MATERIAL.	ethe .
Attachment(s)			
☐ Notice of References Cited (PTO-892)		mai Patent Application (PTO-15	
☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Sum	mary (PTO-413), Paper No	-·
Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No	7∐ Examiner's Am	nendment/Comment	
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Allowable Subject Matter

Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance: The instant application is in condition for allowance, because the cited prior art fails to disclose an exhaust gas purification catalyst comprising palladium on aluminum oxide and barium oxide, wherein barium oxide and palladium crystallites are together deposited on the aluminum oxide support and the average particle size of the palladium crystallites on the support is between 3 and 7 nm, wherein the palladium crystallites are deposited by capillary injection.

The closest cited prior art reference, Gandhi et al. (EP 0786284 A1), discloses a catalyst converter having a first highly loaded palladium or tri-metal catalytic element containing palladium of relatively large particle size closely coupled to the engine exhaust manifold (see abstract). Gandhi et al. continues to disclose wherein the highly loaded palladium may be induced by the Incorporation of barium, zirconium, or stabilized cerium oxide closely coupled to the exhaust of an internal combustion engine (p. 2, col. 2, lines 49-56). Gandhi et al. continues to disclose wherein the palladium particle sizes in the catalytic element may be in the range from about 60A to 1500A (col. 4, lines 18-21). The catalytic metals may be coated on monolithic ceramic substrates of alumina (p. 4, lines 22-26). It is anticipated that a purification catalyst comprised of palladium, wherein the palladium particle sizes in the catalytic element may be in the range from about 60A to 1500A and barium oxide deposited on an alumina support, would exhibit a size distribution of ±0.5 nm. However, Gandhi's

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palladium particles are deposited on the support by impregnation, and not by capillary injection.

Mussmann et al. (US Patent 6,080,375) also do not teach wherein palladium crystallites are deposited onto a aluminum support along barium oxide, wherein the palladium crystallites are present on the support between 3 and 7 nm, wherein the palladium crystallites are deposited by capillary injection.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 571-272-1359. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1700.

Jonas N. Strickland March 5, 2004

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GROUP PAX #: 703-872-9310 GROUP PHONE #: 703-308-0661

CHNOLOGY CENTER 170 FAX COVER

APPLICATION #: 09/928 470

William Schmidt

Ratio + Spirmer Lit

FAX #: [212] 813

MESSAGE: CODY of Correct Notice of Allowalmity

and klasms for allowance

NUMBER OF PAGES INCLUDING THIS ONE;